Alberta Notifiable Disease Summary 2016

In Alberta, the requirements for reporting communicable diseases are mandated by the *Communicable Diseases Regulation,* under the *Public Health Act.* Alberta Health participates in the collection, analysis and interpretation of communicable disease data to assist the Chief Medical Officer of Health in fulfilling the duties prescribed in the *Public Health Act*, namely, Section 14(1), Section 14(4), Section 26 and Section 27(1). This summary highlights key findings on the incidence of communicable diseases in 2016. Diseases that have zero cases are not on the list. Additional information is available on Alberta Health's Interactive Health Data Application (IHDA)(1).

Key findings

- There was one case of measles reported in Alberta. Measles cases were also reported in British Columbia, Ontario and Quebec. The Public Health Agency of Canada has reported 11 cases of measles.
- Less than 10 cases of mumps cases were reported; this is within average of what the province has been seeing in the last five years.
- Pertussis cases were lower by almost 50 per cent. The incidence rate was 7.92 per 100,000 population, compared to 15.0 per 100,000 population last year. Annually, Alberta Health reports the percentage of children in Alberta by two years of age who have received the required immunization for specific childhood diseases. National target coverage rates for Diphtheria, tetanus, pertussis, polio, Hib by age 2 for 2015/2016 was 75 per cent(2) and Alberta's coverage rate was 77 per cent(1).
- There was an increase in invasive Group A streptococcal disease with the highest number of cases since (256) reported since 2007, with an incidence rate of 7.78 per 100,000 population. Edmonton and Calgary had the highest number of cases with *emm1* gene being the most common serotypes reported. Invasive Group A Streptococcal infections can lead to toxic shock syndrome, necrotizing fasciitis, meningitis and pneumonia. Risk factors such as substance use, diabetes and homelessness are frequently observed. While there is no vaccine currently available, development of a combination vaccine with multiple protective antigens is being explored.
- The decrease in Varicella Zoster (Shingles) cases is due to reporting changes that occurred in May 2016. Case-by-case reporting of shingles is no longer required by Alberta Health. Shingles is primarily a clinically diagnosed disease and there is under-reporting in the province. Alberta Health can gather shingles incidence using health care utilization data and other sources.

Other publications

- Annual STI Summary highlights the epidemiology of HIV, Chlamydia, Gonorrhea and Infectious syphilis. http://www.health.alberta.ca/newsroom/pub-health-statistics.html
- Annual Tick Surveillance report examines the risk of Lyme disease in Alberta and provides statistics on the findings of the surveillance program, including geographical distribution of ticks. http://www.health.alberta.ca/newsroom/pub-disease-injury.html
- Annual and weekly Influenza Surveillance reports provides statistics and analysis of influenza activity in Alberta for the given season. http://www.health.alberta.ca/professionals/influenza-evidence.html
- Historical trends of selected notifiable communicable diseases in Alberta. The data tables provide disease incidence and rate per year from 1919 to 2014. http://www.health.alberta.ca/newsroom/pub-health-statistics.html

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Summary of Notifiable Diseases

Selected Notifiable Diseases Incidence in Alberta 2011 – 2016

	2011	2012	2013	2014	2015	2016
Disease (ICD9 Code) Population	3,790,173	3,880,863	3,996,750	4,10,8402	4,179,796	4,252,885
Acute Flaccid Paralysis (0459)	7	6	8	10	5	5
Amoebiasis (006)	90	71	82	74	60	51
Botulism (0051)	.	.	1	.	1	1
Brucellosis (023)	2	.	2	2	.	2
Campylobacteriosis (0084)	996	936	946	978	913	1,016
Chlamydial Infection (099.0)	13,967	15,396	15,713	16,226	17,267	16,357
Cholera (O1, O139) (001)	2	.	.	.	.	.
Creutzfeldt-Jakob Disease- Classic (0461)	6	10	4	6	7	9
Cryptosporidiosis (0078)	114	203	163	139	161	179
Cyclosporiasis (0079)	3	6	4	6	8	23
Dengue Fever (061)	26	47	68	53	59	74
E. Coli Verotoxigenic Infection (includes O157:H7) (0080)	79	97	109	220	121	145
Giardiasis (007)	482	441	418	438	384	409
Gonococcal Infection (098)	1,474	2,046	1,955	1,854	3,367	3,707
Hemolytic Uremic Syndrome (2831)	5	2	5	9	3	11
Haemophilus Influenzae – non-serotype b, Invasive (0384)	50	55	54	62	61	75
Haemophilus Influenzae-serotype b, Invasive (3200)	.	3	1	1	3	2
Hantavirus Pulmonary Syndrome (0786)	1	4	8	5	4	2
Hepatitis A (0700)	40	24	26	27	34	56
Hepatitis B, Acute Cases (0702)	23	24	23	9	19	19
Hepatitis B, Chronic Carriers (0702) - excluding prenatal	614	695	830	845	790	827
Hepatitis B, Status Unknown (0702)	.	.	3	9	2	3
Hepatitis C, Acute Cases (0708)	.	.	140	147	96	147
Hepatitis C, Chronic Carriers (0708)	1,187	1,218	1,116	1,254	1,379	1,496
Hepatitis C, Status Unknown (0708)	.	.	4	13	23	25
Human Immunodeficiency Virus (HIV) (0421)	226	241	259	281	230	282
Influenza (487)	1,216	2,888	3,913	4,858	5,307	4,494
Jamestown Canyon Virus (062.51)	3	1	2	.	5	2
Legionellosis (4828)	10	22	13	5	6	7
Leprosy (030)	4	2	.	.	3	1
Listeriosis (027)	1	5	5	10	6	8
Lyme Disease (087)	8	8	19	10	14	10
Malaria (084)	90	83	72	73	100	106
Measles (055)	2	1	44	29	.	1
Meningococcal Disease, Invasive (036)	10	16	13	9	10	8
Mucopurulent Cervicitis	315	307	283	293	328	303
Mumps (072)	12	6	5	8	4	8
Non-Gonococcal Urethritis (099.4)	1,393	1,470	1,554	1,623	1,668	1,484

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Paratyphoid Fever (0029)	10	11	8	12	12	5
Pertussis (033)	114	332	314	383	627	337
Pneumococcal Disease, Invasive (3201)	355	386	350	379	461	473
Q Fever (083)	6	1	2	.	2	3
Rickettsial Infections (082)	.	.	.	1	1	.
Salmonellosis (003)	926	840	815	1,066	1,198	1,140
Shigellosis (004)	285	222	61	105	99	74
Snowshoe Hare Virus (062.52)	1	.	1	.	1	.
Streptococcal Disease-Group A, Invasive (034 & 038.1)	220	244	267	265	299	331
Syphilis, Infectious (091)*	100	130	127	161	368	410
Syphilis, Non-infectious (096)*	232	240	230	258	229	222
Syphilis, Congenital (090)*	4	.	.	1	.	.
Tetanus (037)	.	1	.	.	2	1
Tuberculosis (010-018)*	170	193	185	216	208	238
Tularemia (021)	1	2	1	2	1	1
Typhoid Fever (0020)	16	18	26	22	27	20
Varicella (Chickenpox) Severe (052.1)	.	.	11	11	11	2
Varicella Zoster (Shingles) (053)	800	903	1,034	1,270	1,617	542
Vibrio Cholerae (non O1, non O139) (0019)	2	3	3	2	7	3
Vibrio Parahaemolyticus (0054)	3	13	6	16	27	5
West Nile Virus Neurological Syndrome (0663)	.	4	4	.	.	1
West Nile Virus Non-Neurological Syndrome (0663.1)	.	5	17	.	.	4
Yersiniosis (0091)	55	26	38	42	52	56

Fastest Means Possible

* 0 cases indicated by periods (.)

References:

1. Alberta Health's Interactive Health Data Application (IHDA) http://www.ahw.gov.ab.ca/IHDA_Retrieval/
2. Business Plan 2017-2020 Health. http://finance.alberta.ca/publications/budget/budget2017/health.pdf

Sources:

1. Communicable Disease Reporting System (CDRS)
2. Communicable Disease & Outbreak Management (CDOM)

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